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## Amendments to the Claims

Kindly amend claims 1 and 3 – 10 and cancel claims 2 and 11 – 18 without prejudice as indicated in the listing below. This listing of claims will replace all prior versions, and listings, of daims in the application:

- 1. (Currently amended) A modular robotic system comprising:
- a rack and vial storage system for storing therein a plurality of racks and vials;
- a consumables storage system for storing materials;
- a <u>first</u> robotic arm for transferring <u>said</u> vials from a first location to a second location, or for transferring <u>said</u> racks from a <u>said</u> first location to a <u>said</u> second location;
- a dispensing, pipetting, or characterization station or solid dispensing station for dispensing active ingredients, water, or additives to said vials to yield a formulation, wherein said first tobotic arm transfers materials from said consumables storage system to said dispensing, pipetting, or characterization station or to said solid dispensing station;
- a mixing or homogenizing station for mixing or homogenizing said formulation to yie d a mixture;

#### and

a phase stability station for phase analysis of said mixture;

optionally a liquids, suspensions, gels or meltables station and optionally a capping, decapping, bar-code reading or cap-supply station;

wherein said first location is:

said rack and vial storage system,

said dispensing, pipetting or characterization station,

said mixing or homogenizing station, or

said phase stability station; and

wherein said second location is-

Page 3 of 10

said rack and vial storage system,

sald dispensing, pipetting or characterization station,

said mixing station, or

said phase stability station; and

a flexible second robotic arm, wherein said flexible second robotic arm transfers said racks or said vials from said first robotic arm to a third location upon said modular robotic system where said third location is

said capping or decapping or bar code reading or cap supply station, said rack and vial storage system,

said dispensing, pipetting or characterization station,
said mixing or homogenizing station,
said phase stability station,
said solid dispensing station or
said liquids, suspensions, gels or meltables station.

#### 2. (Cancelled)

- 3. (Currently amended) The modular robotic system of claim 2 1, further comprising a comminution station for grinding solid particles, wherein said solid particles are active ingredients or additives and wherein said flexible second robotic arm transfers said racks from said first robotic arm to said comminution station.
- 4. (Currently amended) The modular robotic system of claim 1, wherein said racks each holds up to six said vials, wherein said racks are is each bar coded and, wherein each said vials are is each bar coded;

Page 4 of 10

wherein said materials is <u>are</u> selected from the group consisting of <u>said</u> vials, pipette lips, <u>said</u> active ingredients, and <u>said</u> additives; and

wherein said dispensing, pipetting, or characterization station further comprises:

- a waste station, wherein fluid can may be pumped to waste; and
- a tool head, wherein said tool head is fitted with at least one item selected from the group of items consisting of: rack gripper, plate gripper, vial gripper, filter gripper, cap gripper, pipettor, and dispense needle.
- 5. (Currently amended) A modular robotic system comprising:
- a rack and vial storage system for storing therein a plurality of racks and vials;
- a consumables storage system for storing materials;
- a <u>first</u> robotic arm for transferring <u>said</u> vials from a first location to a second location, or for transferring <u>said</u> racks from a <u>said</u> first location to a <u>said</u> second location;
- a dispensing, pipetting, or characterization station for dispensing active ingredients, water, or additives to <u>said</u> vials,;
- a solid dispensing station for dispensing solids by weight into <u>said</u> vials, wherein said solids are active ingredients or additives;
- a liquids, suspensions, gels, or meltables station for dispensing high viscousity fluids, gels, pastes, or meltables, wherein said high viscosity fluids, said gels, pastes, er and meltables are active ingredients or additives;

wherein said combination of said active ingredients, water, and additives from said dispensing, pipetting, or characterization station, said solid dispensing station, or said liquids, suspensions, gels, or meltables station yields a formulation;

a mixing or homogenizing station for mixing or homogenizing said formulation to yield a mixture; and

### Page 5 of 10

a phase stability station for phase analysis of said mixture;

a flexible robotic arm station, wherein said including a flexible second robotic arm that transfers said racks from said first robotic arm to a third location upon said modular robotic system; and a comminution station for grinding solid particles;

wherein said first location is:

said rack and vial storage system;

said dispensing, pipetting or characterization station;

said mixing or homogenizing station;

said phase stability station;

said solid dispensing station;

said Ilquids, suspensions, gels, or meltables station; or

said comminutor comminution station;

wherein said second location is:

said rack and vial storage system;

said dispensing, pipetting or characterization station;

said mixing or homogenizing station;

said phase stability station;

said solid dispensing station;

said liquids, suspensions, gels, or meltables station;

said flexible arm station; or

said comminutor comminution station; and

wherein said third location is:

said rack and vial storage system;

said dispensing, pipetting or characterization station;

said mixing station;

Page 6 of 10

said phase stability station;

said solid dispensing station;

active ingredients, and said additives; and

said liquids, suspensions, gels, or meltables station; or

said comminutor comminution station.

6. (Currently amended) The modular robotic system of claim 5, wherein said racks each holds up to six said vials, wherein said racks are each is bar coded and, wherein each said vials are each is bar coded; wherein said materials are is selected from the group consisting of said vials, pipetts tips, said

wherein said dispensing, pipetting, or characterization station further comprises:

a waste station, wherein fluid ean may be pumped to waste;

a tool head, wherein said tool head is fitted with at least one item selected from the group of items consisting of: rack gripper, plate gripper, vial gripper, filter gripper, cap gripper, pipettor, and dispense needle; and

a deck; wherein said deck is mounted with at least one device selected from the group of devices consisting of: bar code reader, decapper, cap source, orbital shaker, tank in ix testing unit, injection port, dilution port, filtration device, particle size detector, viscometery detector, wash waste station, bead collectorien, photography system, trash collection chute, and particle microscopy system.

7. (Currently amended) The modular robotic system of claim 5, wherein each said rack is includes an identifyingled by bar code; and wherein that is read by said first robotic arm reads-said bar code.

8. (Currently amended) The modular robotic system of claim 6, wherein said liquids, suspensions, gels or meltables station further comprises:

a second tool head, wherein said second tool head is fitted with at least one item selected from the group of items consisting of: rack gripper, plate gripper, vial gripper, gel dispensor gripper, cap gripper, pipettor, and vacuum canula; and a second deck; wherein said second deck is mounted with at least one device selected from the group of devices consisting of: movable gel dispensor, comminuting bead source, be r code reader, decapper, orbital shaker, heated block, mass balance and trash collection chute.

- 9. (Currently amended) The modular robotic system of claim 8, further comprising: a second dispensing, pipetting and or characterization station, wherein said second dispensing, pipetting and or characterization station further comprises a third deck and a third tool head, wherein said third tool head is fitted with at least one item selected from the group of items consisting of: rack gripper, plate gripper, vial gripper, gel dispensor gripper, cap gripper, pipettor, and dispense needle; and wherein said third deck is mounted with at least one device selected from the group of devices consisting of: bar code reader, capper, decapper, caps source, balance, injection port, drain wash waste station, gel dispenseer, orbital shaker, and heated t lock.
- 10. (Currently amended) The modular robotic system of claim 9, further comprising: an off deck, wherein said off deck is mounted with at least one device selected from the list of devices consisting of: second particle size detector, flush system, second viscometer, and second particle microscopy system.

11 - 18 (Cancelled).